



# Information to Support Two-Year Licence Renewal Application for the New Processing Facility

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# Introduction

- AECL has a capable, competent organization in place to operate the New Processing Facility (NPF)
- AECL is committed to a continuous improvement program which supports safe, high quality operation, and draws on the lessons learned by others in the industry
- AECL is committed to meet all regulatory criteria on health, safety, security, the environment, and Canada's international obligations
- AECL is committed to resolving technical issues, completing active commissioning and processing isotope targets during the next licence period



# Dedicated Isotope Facilities (DIF)





# Presentation Outline

- Senior Management Oversight
- Safe and High Quality Operation
- NPF Performance
- Operating Plan for Next Licence Period
- Summary



# Senior Management Oversight

- DIF organization formed under AECL Vice President
- AECL Executive reporting and involvement strengthened
- DIF Operations has lead responsibility for safe operation of the NPF
- Project team supports completion of commissioning and progress to In-Service



# Senior Management Oversight (cont'd)

- Operations management and processes for NPF consolidated with MAPLE
  - MAPLE Operations processes applied to NPF
- NPF staffing significantly increased
- Enhanced quality and safety culture



# Safe and High Quality Operation

- DIF comprehensive improvement plan includes the NPF
- Lessons learned from MAPLE and site operating experience being applied to NPF
- Public information activities same as MAPLE
- AECL/CNSC communications similar to MAPLE
- Regular communications with all AECL staff same as MAPLE



# NPF Performance

- Worker dose exposures well below regulatory limits
- Radioactivity releases to the environment well below facility Action Levels and Derived Release Limits
- Perfect fire safety performance
- Zero lost-time injuries





# **NPF Performance (cont'd)**

## **Program Evaluations**

- **Specific programs for NPF operation similar to MAPLE**
- **Improvements to program implementation for MAPLE also applied to NPF**
- **Fully integrated with the Chalk River site programs:**
  - **Same as MAPLE**



# **NPF Performance (cont'd)**

## **Current Status**

- Resolving technical and operability issues to enable completion of the commissioning program
- Diesel generator for Closed Loop Cooling System and Uninterruptible Power Supply installed
- Hazard and Operability (HAZOP) studies completed



# Operating Plan for Next Licence Period

- Complete work to resolve technical and operability issues
- Complete Phase B (Active) Commissioning using irradiated targets from MAPLE 1 Reactor
- Progress to In-Service



# Summary

- AECL has a capable, competent organization in place to operate the NPF
- AECL is committed to a continuous improvement program which supports safe, high quality operation, and draws on the lessons learned by others in the industry
- AECL is committed to meet all regulatory criteria on health, safety, security, the environment, and Canada's international obligations
- AECL is committed to resolving technical issues, completing active commissioning and processing isotope targets during the next licence period
- AECL is applying for a two-year licence





# Key Terms

- DIF – Dedicated Isotope Facilities
- HAZOP – Hazard and Operability (study)
- MMIR – MDS Nordion Medical Isotopes Reactor
- NPF – New Processing Facility